CMMR1S-02

SURFACE MOUNT SUPER FAST RECOVERY SILICON RECTIFIER 1 AMP, 200 VOLTS



MARKING CODE: CSF02F



www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMMR1S-02 is a 1.0 Amp Silicon Super Fast Recovery Rectifier in the SOD-123F surface mount package. This high quality, well constructed, highly reliable device is designed for use in all types of commercial, industrial, entertainment, computer and automotive applications.

FEATURES:

• Small size (58% smaller than the SMA package)

SOD-123F CASE

- 67% lower profile than SMA
- Greatly improved power dissipation per board area compared to the SMA
- · Low Forward Voltage
- High Current
- Thermally efficient Flat Lead package design

MAXIMUM RATINGS: (T _A =25°C unless otherwise noted)	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	200	V
DC Blocking Voltage	V_{R}	200	V
RMS Reverse Voltage	V _R (RMS)	140	V
Average Forward Current (T _L =110°C)	ì _o ´	1.0	Α
Peak Forward Surge Current (8.3ms)	I _{FSM}	30	Α
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to +150	°C
Thermal Resistance	Θ_{JA}	180	°C/W

ELECTRICAL CHARACTERISTICS: (T_A=25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	TYP	MAX	UNITS
I_{R}	V _R =200V		10	μΑ
I_{R}	V _R =200V, T _A =100°C		50	μΑ
V_{F}	I _F =1.0A		0.95	V
t _{rr}	I_F =0.5A, I_R =1.0A, Rec. to 0.25A		35	ns
CJ	V _R =4.0V, f=1.0MHz	4.0		pF

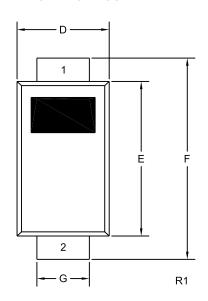
CMMR1S-02

SURFACE MOUNT SUPER FAST RECOVERY SILICON RECTIFIER 1 AMP, 200 VOLTS



SOD-123F CASE - MECHANICAL OUTLINE





LEAD CODE:

- 1) Cathode 2) Anode

MARKING CODE: CSF02F

DIMENSIONS							
	INCHES		MILLIMETERS				
SYMBOL	MIN	MAX	MIN	MAX			
Α	0.035	0.043	0.88	1.08			
В	0.020	0.031	0.50	0.80			
С	0.004	0.008	0.10	0.20			
D	0.065	0.077	1.65	1.95			
Е	0.104	0.116	2.65	2.95			
F	0.140	0.156	3.55	3.95			
G	0.030	0.041	0.75	1.05			

SOD-123F (REV:R1)

OUTSTANDING SUPPORT AND SUPERIOR SERVICES



PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- · Inventory bonding
- · Consolidated shipping options

- · Custom bar coding for shipments
- · Custom product packing

DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free guick ship samples (2nd day air)
- Online technical data and parametric search
- SPICE models
- · Custom electrical curves
- · Environmental regulation compliance
- · Customer specific screening
- · Up-screening capabilities

- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- · Application and design sample kits
- · Custom product and package development

REQUESTING PRODUCT PLATING

- 1. If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when ordering (example: 2N2222A TIN/LEAD).
- 2. If requesting Lead (Pb) Free plated devices, add the suffix "PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

CONTACT US

Corporate Headquarters & Customer Support Team

Central Semiconductor Corp. 145 Adams Avenue Hauppauge, NY 11788 USA

Main Tel: (631) 435-1110 Main Fax: (631) 435-1824

Support Team Fax: (631) 435-3388

www.centralsemi.com

Worldwide Field Representatives: www.centralsemi.com/wwreps

Worldwide Distributors:

www.centralsemi.com/wwdistributors

For the latest version of Central Semiconductor's **LIMITATIONS AND DAMAGES DISCLAIMER**, which is part of Central's Standard Terms and Conditions of sale, visit: www.centralsemi.com/terms

www.centralsemi.com (001)